

Title (en)  
FLEXIBLE MALE/FEMALE MOLD FOR CUSTOM SURFBOARD PRODUCTION

Title (de)  
FLEXIBLE MATRIZE UND PATRIZE ZUR MASSANFERTIGUNG VON SURFBOARDEN

Title (fr)  
MOULE MALE/FEMELLE FLEXIBLE DESTINE A LA PRODUCTION D'UNE PLANCHE DE SURF PERSONNALISEE

Publication  
**EP 1246752 A1 20021009 (EN)**

Application  
**EP 01942345 A 20010112**

Priority  
• US 0101208 W 20010112  
• US 17613600 P 20000114

Abstract (en)  
[origin: WO0151350A1] Method of high-strength sandwich skin fabrication uses the thickness of a high-density foam skin core (27) to mask minor imperfections on the surface of the mold, thereby allowing the mold (10, 20) to be divided into separate integral parts that have the capacity to be moved, then fixed and set, so as to describe different curves or modify dimensions of the board. Mold is reversible; male/female configurations permit fabrication of a wide array of custom designs. Method offers low production costs due to a rapid mold cycle, reduced labor, and efficient use of space, yet produces an exceptionally high strength, light weight board because of the increased shear strength of the monocoque perimeter rail (70), and the optimum fiber/resin ratio in the cored, structural sandwich skin.

IPC 1-7  
**B63B 35/79**

IPC 8 full level  
**B29C 33/30** (2006.01); **B29C 65/00** (2006.01); **B29C 70/88** (2006.01); **B63B 5/24** (2006.01); **B63B 9/06** (2006.01); **B63B 35/79** (2006.01)

CPC (source: EP US)  
**B29C 33/307** (2013.01 - EP US); **B29C 33/308** (2013.01 - EP US); **B29C 66/636** (2013.01 - EP US); **B29C 70/885** (2013.01 - EP US); **B63B 5/24** (2013.01 - EP US); **B63B 32/40** (2020.02 - EP US); **B63B 32/57** (2020.02 - EP US); **B63B 32/59** (2020.02 - EP US); **B29C 65/564** (2013.01 - EP US); **B29C 66/71** (2013.01 - EP US); **B29C 66/7212** (2013.01 - EP US); **B29C 66/72141** (2013.01 - EP US); **B29C 66/72525** (2013.01 - EP US); **B29L 2031/5272** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0151350 A1 20010719; WO 0151350 A9 20021024**; AT E411218 T1 20081015; AU 2005200517 A1 20050303;  
AU 2008258136 A1 20090108; AU 2008258136 B2 20110804; AU 2790601 A 20010724; AU 778072 B2 20041111; BR 0107787 A 20040323;  
BR 0107787 B1 20090505; DE 60136162 D1 20081127; EP 1246752 A1 20021009; EP 1246752 A4 20050511; EP 1246752 B1 20081015;  
JP 2003523297 A 20030805; JP 4773024 B2 20110914; MX PA02006917 A 20040405; NZ 520142 A 20040625; US 6623323 B1 20030923;  
ZA 200205351 B 20030820

DOCDB simple family (application)  
**US 0101208 W 20010112**; AT 01942345 T 20010112; AU 2005200517 A 20050207; AU 2008258136 A 20081215; AU 2790601 A 20010112;  
BR 0107787 A 20010112; DE 60136162 T 20010112; EP 01942345 A 20010112; JP 2001551742 A 20010112; MX PA02006917 A 20010112;  
NZ 52014201 A 20010112; US 74376001 A 20010112; ZA 200205351 A 20020704